

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-037924

(43)Date of publication of application : 06.02.2002

---

(51)Int.Cl. C08L 5/00  
B01J 20/24  
B01J 20/30  
C08J 3/075  
C08K 3/38  
C08K 5/057

---

(21)Application number : 2000-224014

(71)Applicant : UNITIKA LTD

(22)Date of filing : 25.07.2000

(72)Inventor : KAWANAKA SATOSHI

NAKAI YOSHIO

NAITO NORIHIRO

WADA SATOKO

---

(54) BIODEGRADABLE WATER-ABSORBING MATERIAL AND PRODUCTION METHOD  
THEREOF

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-absorbing material having biodegradability and stable water-absorbing capacity and gel strength to concentration of divalent or less cation in an absorbed liquid, and a production method thereof.

SOLUTION: Disclosed is a water-absorbing material consisting of a galactomannan, boron ion and a trivalent or more polyvalent metal ion except the boron ion, containing 50 mass % or more unmodified galactomannan based on the whole galactomannan, capable of absorbing 40 times or more aqueous solution containing the divalent or less cation based on the self-weight and having gel strength of  $2 \times 10^{-5}$  N/mm<sup>2</sup> or more after water absorption.

---

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of  
rejection]

[Kind of final disposal of application other than

the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]